PHIL-B01198

PHILIPS

DSC 950

Digital System Controller

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Guarantee and Service valid for Australia

The benefits given to the purchaser by this warranty are in addition to all other rights and remedies, which, under the Trade Practices Act or other Commonwealth or State law, the purchaser or owner has in respect of the product.

The Philips product carries the following warranties:
- C-series HiFi-systems 12 months.
- Compact Disc Players: 12 months.
- Home Audio Systems: 6 months.
- Clock radios, portable radios, cassette recorders, cassette players and radio recorders: 90 days.

Any defect in materials or workmanship occurring within the specified period from the date of delivery, will be rectified free of charge by the retailer from whom this product was purchased.

Note: Please retain your purchase docket to assist prompt service.

Conditions of this warranty

1. All claims for warranty service must be made to the retailer from whom this product was purchased. All transport charges incurred in connection with warranty service or replacement will be paid by the purchaser.
2. These warranties do not cover batteries and extend only to defects in materials or workmanship occurring under normal use of the product where operated in accordance with our instructions.

Philips Consumer Products Division,
Technology Park
Figtree Drive, Australia Centre
Homebush 2140,
New South Wales

Guarantee and Service for New Zealand

Thank-you for purchasing this quality Philips product.
Philips New Zealand Ltd guarantees this product against defective components and faulty workmanship for a period of 12 months. Any defect in materials or workmanship occurring within 12 months from the date of purchase subject to the following conditions will be rectified free of charge by the retailer from whom this product was purchased.

Conditions

1. The product must have been purchased in New Zealand. As proof of purchase, retain the original sales docket.
2. The guarantee applies only to faults caused by defective components, or faulty workmanship on the part of the manufacturer.
3. The guarantee does not cover failures caused by misuse, neglect, normal wear and tear, accidental breakage, use on the incorrect voltage, use contrary to operating instructions, or unauthorised modification to the product or repair by an unauthorised technician.
4. Reasonable evidence (in the form of a sales docket) must be supplied to indicate that the product was purchased no more than 12 months prior to the date of your claim.
5. In the event of a failure, Philips shall be under no liability for any injury, or any loss or damage caused to property or products other than the product under guarantee.

This guarantee does not prejudice your rights under common law and statute, and is in addition to the normal responsibilities of the retailer and Philips.

How to claim

Should your Philips product fail within the guarantee period, please return it to the retailer from whom it was purchased. In most cases the retailer will be able to satisfactorily repair or replace the product.
However, should the retailer not be able to conclude the matter satisfactorily, or if you have other difficulties claiming under this guarantee, please contact

The Guarantee Controller
Philips New Zealand Ltd.
✉ P.O. Box 41.021
Auckland
☎ (09) 84 94 160
fax 3 (09) 84 97 858

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PRECAUCION - ADVERTENCIA
NO ABRIR, RIESGO DE CHOQUE ELECTRICO
ATENCION
VERIFIQUE QUE EL VOLTAJE DE ALIMENTACION
SEA EL REQUERIDO PARA SU APARATO
PARA EVITAR EL RIESGO DE CHOQUE ELECTRICO, NO QUITE LA TAPA;
EN CASO DE REQUERIR SERVICIO, DIRIJASE AL PERSONAL AUTORIZADO DE PHILIPS.

NOM

Es necesario que lea cuidadosamente su instructivo de manejo.

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English

Thank you for selecting the Philips DSC950 Digital System Controller.

The DSC950 is the key component in the Philips Digital Speaker System. This system consists of maximum three speaker systems (Philips DSS930), a digital pre amplifier and digital or analog audio components (CD, DCC, TAPE, TUNER, etc.)

- Digital Process
  In contrast with an analog pre-amplifier, this system controller does not adjust the volume, bass & treble, balance and compensation in the set, but transmits these settings to the speakers which may be located in different rooms.
- A/D conversion
  A 16 bit delta-sigma A/D converter contains a digital Anti-Alias filtering, featuring excellent performance.
- Inputs/Outputs
  The system controller contains the hardware to connect analog sources (e.g. TAPE, PHONO, VCR, TV) and digital sources (CD, DBS, DCC) to the system.
- Digital Selector Circuit, the direct digital in- and output for signals from digital sources like a CD player, Digital Compact Cassette recorder, or Digital Broadcast Satellite unconditionally maintains the purity of the digital signals.
- Your DSC950 and other sets in your system can be fully operated from any room with the system remote control.
- Enhanced System Intelligence, offering increased ease of operation by extensive communication between the various components of your system.

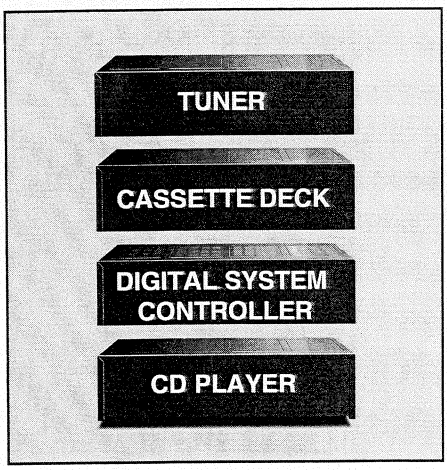
Please read this manual carefully ***before*** you attempt to connect or operate the digital system controller.

This manual is divided into six sections:

- **Installation**: explains how to set up your system.
- **Operation**: explains how to use the major controls
- **Advanced Options**: gives more detailed information on operation, including special features.
- **System Aspects**: explains the Enhanced System Intelligence feature and its benefits
- **Remote Control**: gives detailed information on the operating functions of the system remote control handset
- **General Information**: includes maintenance information and technical data.

POSITIONING YOUR SYSTEM

The preferred order to stack the units of your system is shown in the diagram below.



WARNING

Do not connect the set to the mains, until all other connections are made and the mains voltage (indicated on the type plate) is checked.

When positioning the unit, bear in mind that every amplifier produces heat which must be able to dissipate freely. For this reason do not cover any vents and make sure that there is sufficient ventilation around the unit.

MAINS SUPPLY

- Check that the mains voltage as shown on the type plate corresponds to your local mains supply. If it does not, consult your dealer or service organisation.
- Insert the plug of the mains lead in the wall socket. The mains supply is now connected.
- To disconnect the set from the mains completely, remove the mains plug from the wall socket.

Important notes for users in the U.K.:

Mains plug

This apparatus is fitted with an approved moulded 13 Amp plug.

To change a fuse in this type of plug proceed as follows:

1 Remove fuse holder and fuse
2 Fix new fuse which should be a BS1362 5A A.S.T.A. or BSI approved type.
3 Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place.

If the mains plug contains a fuse, this could have a value of 5A. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5A.

Note: The severed plug must be disposed to avoid a possible shock hazard should it be inserted into a 13A socket elsewhere.

How to connect a plug

The wires in the mains lead are coloured in accordance with the following code: Blue = 'Neutral' ('N'), Brown = 'Live' ('L').

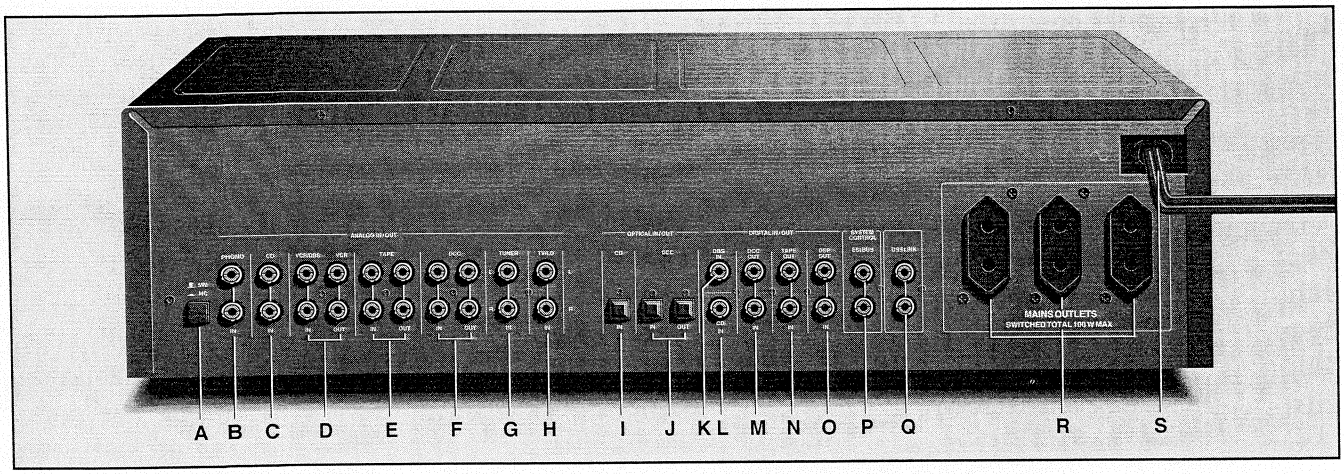
These colours may not correspond with the colour markings identifying the terminals in your plug, so proceed as follows:

1 Connect the Blue wire to the terminal marked N or coloured blue or black.
2 Connect the brown wire to the terminal marked L or coloured brown or red.

3 Do not connect either wire to the earth terminal in the plug, marked E or ⏚ or coloured green or green-and-yellow.

Before replacing the plug cover, make sure that the cord grip is clamped over the sheath of the lead - not simply over the two wires.

The type plate is located on the back of the set.
This product complies with the Radio Interference Requirements of the European Community



You only have to install your system once.
Please make the following connections (whenever applicable)
Note: Switch off the DSC950 before making any connections.

ANALOG CONNECTIONS

A **MM/MC** – Phono selector button for selecting Moving Magnet or Moving coil.

B **PHONO** – input sockets for connecting a record player.

C **CD** – input sockets for connecting a CD player

D **VCR/DBS** – input sockets for connecting the sound channel of a video recorder or satellite tuner
VCR – output sockets for extra sound recording equipment e.g. a cassette or tape deck or a HiFi stereo video recorder.

E **TAPE** – in- and output sockets for connecting a cassette deck

F **DCC** – in- and output sockets for connecting a Digital Compact Cassette recorder

G **TUNER** – input sockets for connecting a tuner.

H **TV/LD** – input sockets for connecting a TV set or laserdisc player.

OPTICAL CONNECTIONS

I **CD** – Input socket for connecting the optical output of a CD player using a optical cable.

J **DCC** – Input and output sockets for connecting a Digital Compact Cassette recorder or another digital recording device using an optical cable.

Remark: when the optical inputs are not used, the caps must be inserted to prevent disturbance from incident light.

DIGITAL CONNECTIONS

K **DBS** – Input socket for connecting the digital output of a digital satellite tuner (DBS) using a coaxial cable.

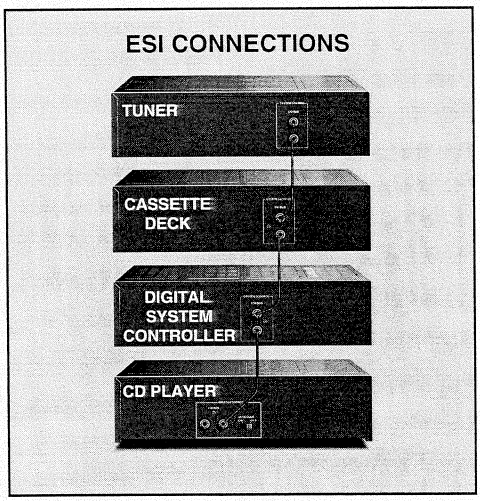
L **CD** – Input socket for connecting the digital output of a CD player using a coaxial cable.

M **DCC** – Input and output sockets for connecting a Digital Compact Cassette recorder using a coaxial cable.

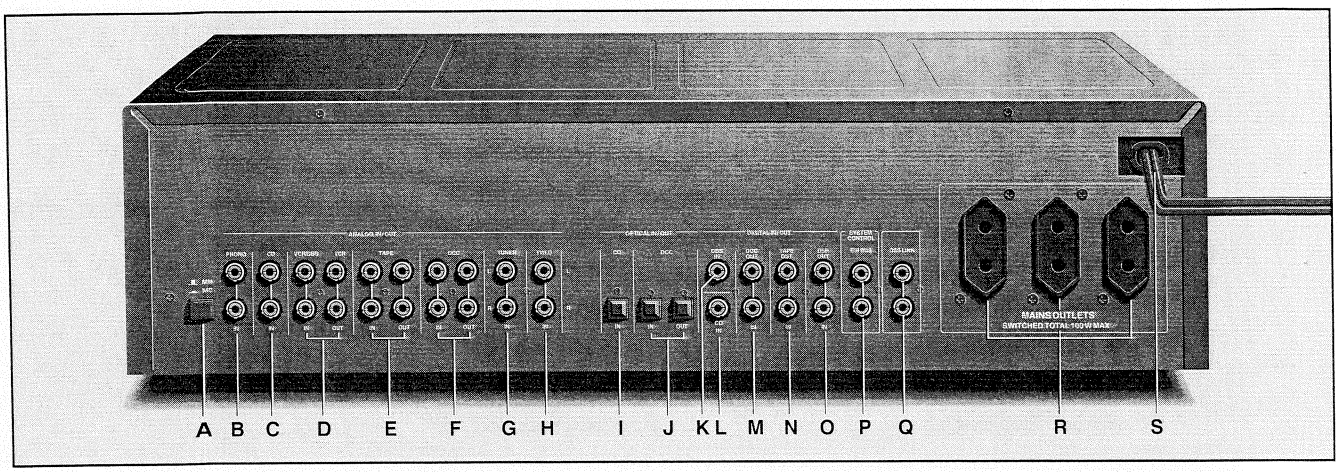
N **TAPE** – Input and output sockets for connecting another digital recording device using a coaxial cable.

O **DSP** – Input and output sockets for connecting a DSP (Digital Signal Processor)

P **SYSTEM CONTROL ESI BUS**
(Enhanced System Intelligence)
Remote control sockets for connection to the corresponding ESI sockets of other components in your HiFi system (e.g. Philips 900 series).
The ESI BUS is used for bidirectional communication between the sets of your HiFi system.
Connect the ESI socket to the ESI socket of the external equipment that uses the ESI remote control system.
In this way you can operate external sets by remote control through the sensor of the DSC950.

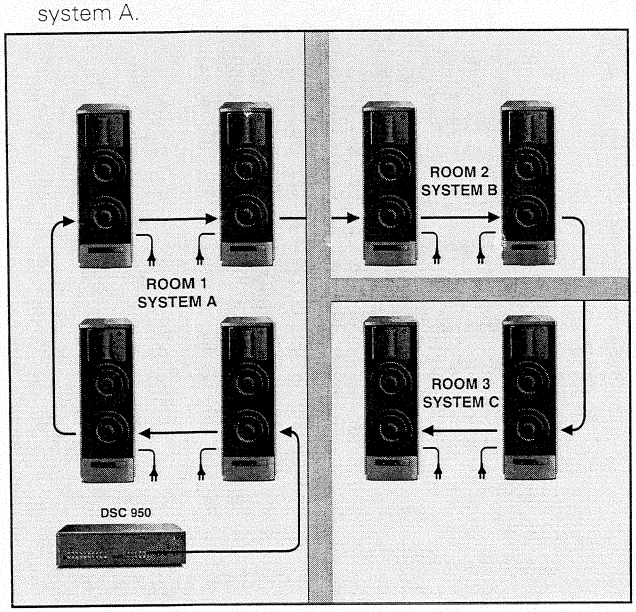


English



Q DSS LINK – output sockets for connecting two chains of digital speakers (Philips DSS930) to your Digital System Controller. Up to 12 speakers can be connected.

- Each digital speaker can be configured for a speaker system (A, B or C) and for a channel (left, right, mono).
- Make sure that all speakers in one room have the same speaker system setting. This means that all speakers in Room 1 should be set to system A, all speakers in room 2 should be set to system B and all speakers in room 3 should be set to system C.
- Several speakers in one room can have the same channel setting (e.g. two left and three right speakers).
- Make sure that an end plug is connected to the output of the last speaker in the chain. (these plugs are delivered with the Philips DSS 930)
- Always locate your DSC950 in the same room as speaker system A.



Further information can be found in the instructions for use of your DSS930.

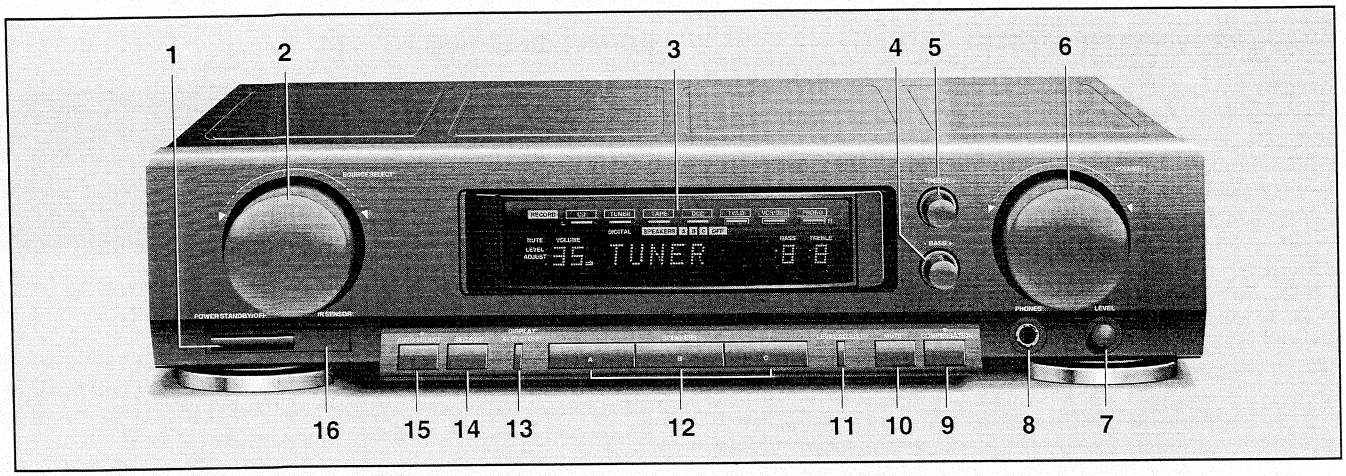
MAINS CONNECTION

R MAINS OUTLETS – switched mains outputs for connecting mains plugs from various units such as tuner, cassette deck, CD player, etc. (maximum capacity is 100 W) (not on all versions)

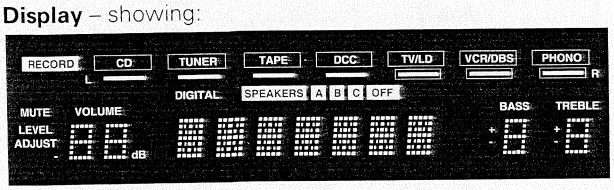
S Mains lead

Remark: Make sure that you also make the analog connections (not only digital/optical connections) in order to take full benefit of all the possibilities of your Digital System Controller

After making all the necessary connections (some may not be applicable for your system set-up), your system is ready for use. In the next chapter we will describe how to operate your Digital System Controller.



1 **POWER STANDBY/OFF** – for switching on in stand by mode
2 **SOURCE SELECT** – for selecting the desired listening source
3 **Display** – showing:



– the selected source: CD, TUNER, TAPE, DCC, TV/LD, VCR/DBS, PHONO.
– the white source indicators in the upper part of the display indicate the source that you can make a recording from.
– the balance is indicated under the white source indicators with the L and R indication (when the BALANCE is adjusted)
– the signal strength is indicated under the white source indicators (when the LEVEL ADJUST mode is entered).
– the red **RECORD** indication lights up when a recording source has been fixed with the REC. OUT key.
– the **DIGITAL** indicator lights up when a source is selected (connected via a digital or optical socket to the DSC950) which sends a digital signal to the DSC.
– **SPEAKERS A**, **B**, **C**, **OFF** indicates the selected speaker systems.
– **MUTE** lights up when the volume is decreased by 24 dB
– **LEVEL ADJUST** lights up when the sensitivity of an input is being adjusted.
– **VOLUME** indicates the volume level.
– **BASS**, **TREBLE** indicate the adjustments of the high and bass tones when compensation is switched off. When compensation is switched on, the bass and treble display disappears.

4 **BASS** – for adjusting the bass tones
5 **TREBLE** – for adjusting the high tones
6 **VOLUME** – for adjusting the volume
7 **LEVEL** – for adjusting the volume for the stereo headphones
8 **PHONES** – socket for stereo headphones
• You may connect a pair of stereo headphones with 6.3 mm plug to this socket.
Inserting the plug will ***not*** disconnect the speakers.
9 **COMPENSATION** – for switching compensation on and off. Further information can be found in the instructions for use of the DSS 930 Digital Speaker System.
10 **MUTE** – for decreasing the volume by 24 dB
11 **LEVEL ADJUST** – for adjusting the sensitivity of an input source
12 **SPEAKERS A,B,C** – for switching on and off the speaker systems A, B and C.
13 **DISPLAY A/B/C/OFF** – for selecting the settings of a speaker system to be shown on the display
14 **REC. OUT** – for selecting the recording source
15 **AUTO SELECT** – for switching on and off the Enhanced System Intelligence (ESI) system.
16 **IR SENSOR** – infrared remote control eye

POWER STANDBY/OFF

• Press the POWER STANDBY/OFF key **1** to switch on the power. The Digital System Controller will enter the standby mode and the LED above this key lights up red.
When the DSC is switched to active mode (as described below in the chapters 'Wake-up from standby' and 'SOURCE SELECTION'), the respective indicators light up and the standby indicator lights up green. When a remote control command is received, this standby indicator flashes.
• To switch off the Digital System Controller press the POWER STANDBY/OFF key again.

STANDBY

• Switching a set or your whole system to standby can only be done via the remote control.
• To switch a single source (e.g. TUNER) to standby:
• Select the source using the source keys on the remote control.
– The selected source will be switched to standby if the standby key is pressed briefly.
• If the STANDBY key is kept pressed for more than approx. 1 second the whole system will be switched to stand-by.
All light indicators will be switched off with the exception of the standby indicator (red) on the DSC.
When AUTO SELECT is activated the indicator of this key also lights up during standby.
NOTE: If the whole system is switched to standby when a recording is active, the recording (or CD-dubbing) will be cancelled.

Wake-up from standby

There are several options to switch your system from standby back to operating mode:
• Touching or turning the rotary SOURCE SELECT knob **2**:
– The DSC will directly be switched to operating mode as soon as the SOURCE SELECT knob is touched.
– When this knob is released (and not turned) all other sets in the system (connected via the ESI sockets) become active and all speakers in speaker system A will be activated.
– When the SOURCE SELECT knob is touched and turned, only the DSC, the selected source and speaker system A will become active.
• Selecting a source with your remote control. The speakers in the room where the remote control is used will also become active.
• When AUTO SELECT is activated several keys on equipment connected via the ESI BUS sockets that activate a play function may also be used as wake-up keys (e.g. PLAY, SCAN, PRESET).
• Pressing the DISPLAY A/B/C/OFF key **13** on your DSC.
• Pressing the SPEAKERS A, B or C key on your DSC or on the remote control.

English

OPERATING A SPEAKER SYSTEM

You can connect up to 12 digital speakers to your DSC 950. Each digital speaker can be configured for a speaker system (A, B or C) and for a channel (left, right, mono).
Make sure that all speakers in one room have the same speaker system setting. This means that all speakers in Room A should be set to system A, all speakers in room B should be set to system B and all speakers in room C should be set to system C.
NOTE: Only speaker system A can be located in the same room as your DSC 950.
Several speakers in one room can have the same channel setting (e.g. two left and three right speakers).

- Press SPEAKERS A **12** if you want to switch on speaker system A,SPEAKERS B to switch on speaker system B and SPEAKERS C to switch on speaker system C.

– The display shows all settings of a particular speaker system.

- Press the DISPLAY A/B/C/OFF key **13** until the required speaker system appears in the display.

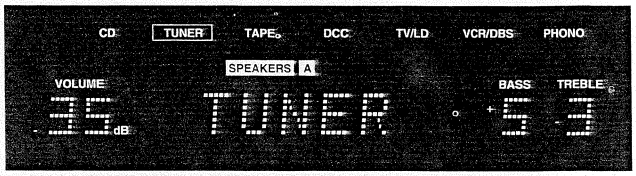
– The settings of the volume, bass and treble of the selected speaker system appear on the display.
Note: When COMPENSATION **9** is switched on, the indicator above this key lights up. The bass and treble volume will only be displayed when compensation is switched off.

- You can now adjust the sound volume with the VOLUME control **6**.
- Adjust the bass tones with BASS **4** and the high tones with TREBLE **5** (only possible when compensation is switched off)
- The balance can be adjusted with the BALANCE keys on your remote control (see also the chapter BALANCE).
- Press MUTE **9** if you want to decrease the volume by 24 dB.

Operating a speaker system via the DSC 950 remote control

- Since all DSS930 speakers have their own infra red remote control sensor, you can switch on speaker system A, B and C from any room by pointing the remote control to a speaker and pressing the respective keys.
- The volume, bass, treble, balance and compensation of each speaker system can be adjusted in the same way.
(see also the chapter REMOTE CONTROL.)

SOURCE SELECTION

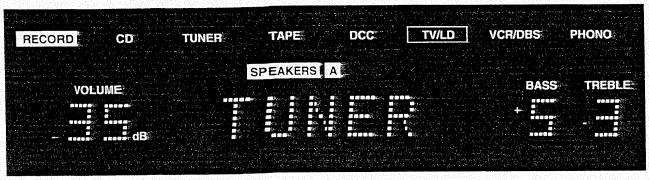


- When the DSC950 is in standby mode, it will directly be switched to operating mode as soon as the SOURCE SELECT knob is touched.
- When this knob is released (and not turned) all other sets in the system (connected via the ESI sockets) become active. The source which was selected last before the system was switched to standby will be selected again.
- When the SOURCE SELECT knob is touched and turned, only the DSC950 and the selected source (indicated on the alpha-numeric part of the display, e.g. TUNER) will become active.
NOTE: A selection is only made when the turning is stopped for more than one second (to prevent that during turning of the knob all sources become active).
- By turning the SOURCE SELECT knob one step to the left you select the source left to the current source.
- By turning the SOURCE SELECT knob one step to the right you select the source right to the current source.
- When AUTO SELECT is activated, you can switch both the source and the DSC950 to active mode by simply pressing 'PLAY' on CD or Deck or one of the tuner preset keys.

Source selection via the remote control handset

- Press (***for more than 1 second***) the respective source key on the remote control.
The selected source and the DSC950 will become active.

RECORD SELECTION



The selected listening source is indicated on the alpha-numeric part of the display, e.g. *TUNER*.
The white source indicators in the upper part of the display indicate the source that you can make a recording from (recording source). Normally, the recording source follows the selected listening source .

- A recording source can be fixed with the REC. OUT key **14**.
- When this key is pressed the selected source will remain the recording source when another listening source is selected with the SOURCE SELECT knob **2**.
  The red RECORD indication in the display lights up.
  It is now possible to listen to another source than the one you are recording from (e.g. recording from your tuner while listening to CD).
- Each time the REC.OUT **14** key is pressed again within 5 seconds the source right to the current source will become the new recording source.
- The record selection can be cancelled when after a pause of at least 5 seconds the REC.OUT **14** key is pressed again.
- The red RECORD indication will disappear from the display. The record selection will now be cancelled and the white source indicators in the upper part of the display follow the listening source again.
  You can now make a recording from the source you are listening to.
- The record selection will also be cancelled when the DSC950 is switched off or to standby mode.

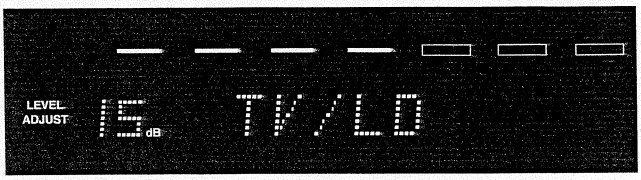
Digital record selection

When you select with the REC.OUT **14** key a digital source (connected via the digital sockets), you can make a direct digital recording.

Notes:

- Make sure that the source (e.g. CD) and the recorder (e.g. DCC) are connected to the DSC via the digital sockets.
- If you want to make a recording of an analog source, make sure that the recorder (e.g. DCC) is set to analog input mode.

ADJUSTING THE SENSITIVITY OF THE ANALOG INPUTS



Your DSC 950 contains an analog-to-digital converter for all analog inputs.
However, each input can have a different volume level. A CD player has for instance a higher volume level than a tuner.
With the LEVEL ADJUST key **11** you can adjust the sensitivity of each input separately.

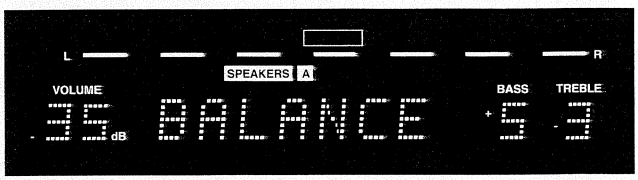
These adjustments have already been made for you in the factory. It is normally not necessary to change them, but if desired, they can be changed as follows:

- Select with the SOURCE SELECT knob **2** the source of which you wish to adjust the input level.
- Press the LEVEL ADJUST key **11**.
  – The display shows *ADJUST LEVEL WITH VOLUME*
  – Then, the display will show the selected source and the currently programmed level for this source.
- Adjust the input level with the VOLUME knob **6**. Turn the volume as high as possible, but make sure that in the presence of a strong signal, the peak meter does not enter the red part.
  The level can be adjusted from -3 to +23 dB in several steps.
- Press the LEVEL ADJUST key **11** again when the level has been adjusted.
  The level will be stored in the memory and recalled each time the respective source is selected.

NOTE: If on the selected source an analog and a digital input is connected, the level adjustment will be analog, although the DSC has selected digital in. The level adjustment is only audible for the headphone connection.

IMPORTANT
If the signal is distorted, check the peak meter.
If it enters the red part, adjust the sensitivity of the analog inputs.

BALANCE



The balance can be adjusted with the BALANCE keys on the remote control.

- When one of these keys is pressed the display will show *BALANCE*.
- The white box in the upper part of the display shows the balance adjustment. The fourth box indicates the center position (as shown above).
- Three seconds after the BALANCE keys on the remote have been pressed, the display changes to normal mode and shows the selected source and its settings again.
- A different balance can be set for each speaker system.

GB SYSTEM ASPECTS

English

ENHANCED SYSTEM INTELLIGENCE

If you have connected equipment via the ESI sockets to your DSC950 and when AUTO SELECT **15** is activated there will be an additional internal communication between the different elements in your system.
The whole system can be operated by the system remote control through the sensor of the Digital System Controller.
In addition the functions AUTOMATIC SOURCE SELECTION and AUTOMATIC STOP as mentioned below are then accessible.

IMPORTANT:
All products of the Philips 900 series which are equipped with an own remote control, also have an IR SENSOR ON/OFF switch on the back of the product.
When these products are incorporated in your HiFi system with ESI BUS connection, this IR SENSOR ON/OFF switch should always be in the **OFF** position.
The product can then be operated with the remote control of your DSC950.
Make sure that the respective product is ***switched off*** when switching the IR SENSOR on and off.

AUTOMATIC SOURCE SELECTION

Of equipment connected via the ESI sockets to the DSC950 the source is automatically selected by pressing any button that activates the play function e.g. PLAY, SCAN, PRESET.

e.g.: When you press the PLAY key on your CD while listening to your tuner, the source CD will be selected.

AUTOMATIC STOP

When the selected source is in the play mode, it will always be stopped automatically as soon as another source is selected.

e.g.: When you select the source TUNER with the SOURCE SELECT button while listening to your CD, the CD player will be stopped.

DUBBING

If CD SYNCHRO is pressed on your cassette deck then the dubbing is done via the analog record selector. (the recording indicator on the display will remain fixed on CD)

If CD SYNCHRO is pressed on the DCC then the dubbing is done via the digital or analog selector depending on the connections (analog/digital) that are made.

If the recording source is changed with the REC.OUT key **14**, dubbing will be cancelled.

When a second dubbing request of another source (e.g. DCC) is received, the first dubbing will be cancelled.

Further information can be found in the instructions for use of your cassette deck or DCC.

TIMER

When making use of the timer function of your Philips 900 series tuner (e.g. FT930) the DSC has to be in standby.
A timer request will be disregarded if the DSC is activated.

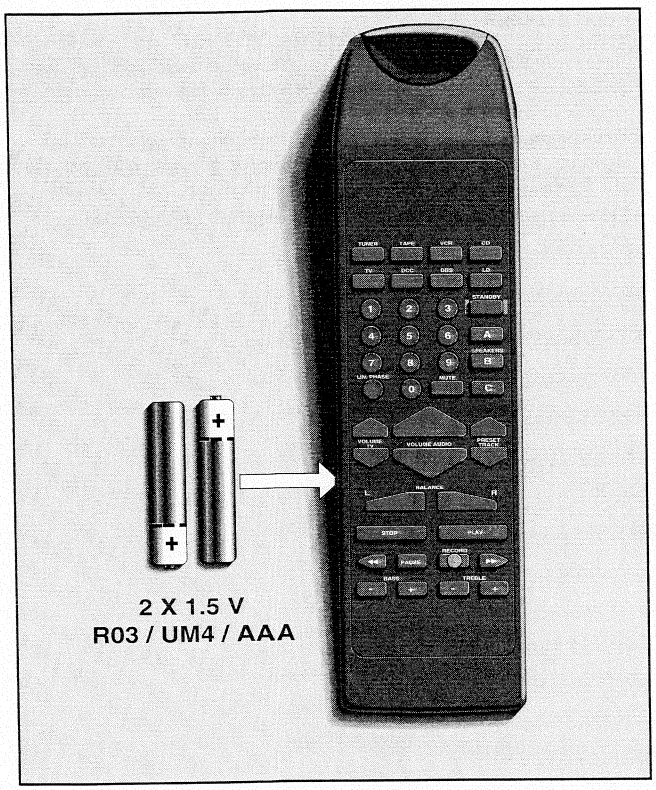
The timer function can be used as e.g. a wake up function or to make an unattended recording at a specific time.

Further information can be found in the instructions for use of your tuner.

PROCESSED/UNPROCESSED RECORDING OR LISTENING

When a DSP (Digital Signal Processor) is connected to the system via the ESI sockets it is possible to make a processed or unprocessed recording or to listen processed or unprocessed.

Further information can be found in the instructions for use of your DSP.



The remote control supplied can be used to operate up to three speaker systems connected to the DSS LINK sockets and all units in the system which are connected via the ESI sockets. In addition, it can be used to operate any other equipment that uses the RC-5 remote control system.

IMPORTANT:
All products of the Philips 900 series which are equipped with an own remote control, also have an IR SENSOR ON/OFF switch on the back of the product.
When these products are incorporated in your HiFi system with ESI BUS connection, this IR SENSOR ON/OFF switch should always be in the **OFF** position.
The product can then be operated with the remote control of your DSC 950.
When these products are not used in a 900 series HiFi system the switch should be in the **ON** position.
Make sure that the respective product is ***switched off*** when switching the IR SENSOR on and off.

BATTERIES

- Open the battery compartment and insert two batteries as indicated, type R03, UM-4 or AAA-cells .
- Remove the batteries when they have run down or if they will not be used again for a long period.

REMOTE CONTROL FROM ANOTHER ROOM

You can control your system from another room, by pointing the remote control at one of the connected digital speakers. The speaker will pass signals from the remote control handset to your Digital System Controller.

OPERATING SPEAKER SYSTEMS

- Since all DSS930 speakers have their own infra red remote control sensor, you can control speaker system A, B and C from any room by pointing the remote control to a speaker and pressing the respective keys.
- The commands **VOLUME**, **BALANCE**, **BASS**, **TREBLE**, **COMPENSATION**, **MUTE** act ***only*** in the room where the remote control is used.
  e.g. When the VOLUME ▵ key is pressed in room 2, the volume of all speakers in room 2 will be increased.
- When the remote control is pointed to your DSC 950, these commands are interpreted for speaker system A

For other sets in your system connected via the ESI BUS sockets, the following functions are available on the remote control:

Digital System Controller

- **SPEAKERS A/B/C** - to activate or deactivate speaker systems
- **Source selectors**
- **VOLUME** - adjusting the volume of speaker system A
- **BALANCE** - adjusting the balance of speaker system A
- **BASS** - adjusting the bass tones of speaker system A
- **TREBLE** - adjusting the high tones of speaker system A
- **COMPENSATION** - to switch on/off compensation for speaker system A
- **MUTE** - decreasing the volume of speaker system A by 24 dB
- **STANDBY** - switching the complete system to standby by pressing longer than approx. 1 second.

Tuner

- **0-9 digit buttons** - selecting preset stations; entering data when programming timer or clock and when using the direct tuning function
- **PRESET/TRACK** - next ▵ or previous ▿ preset station
- ◂◂ - search down
- ▸▸ - search up
- **STANDBY** - selecting standby mode

Cassette deck (TAPE); deck B or deck A if B is empty

- **PRESET/TRACK** - next ▵ or previous ▿ track
- **PLAY** - starting play
- **STOP** - stopping recording/play
- **PAUSE** - interrupting recording
- **RECORD** - starting recording (deck B only)
- ▸▸ - winding the tape in the playing direction
- ◂◂ - winding the tape in the opposite direction
- **STANDBY** - selecting standby mode

VCR

- **0-9 digit buttons** - selecting stations
- **PRESET** - next ▵ or previous ▿ station
- **PLAY** - starting playback
- **STOP** - stopping recording/play
- **PAUSE** - interrupting recording/play
- **RECORD** - starting recording
- ▸▸ - winding the tape
- ◂◂ - rewinding the tape
- **STANDBY** - selecting standby mode

English

CD

- **0-9 digit buttons** - track selection
- **PRESET/TRACK** - next ⏶ or previous ⏷ track
- ◀◀ - search down
- ▶▶ - search up
- **PLAY** - starting play
- **STOP** - stopping play
- **PAUSE** - interrupting play
- **STANDBY** - selecting standby mode

TV

- **VOLUME TV** - adjusting the volume
- **0-9 digit buttons** - selecting preset stations
- **PRESET** - next ⏶ or previous ⏷ preset station
- **STANDBY** - selecting standby mode

DCC

- **0-9 digit buttons** - track selection
- **PRESET/TRACK** - next ⏶ or previous ⏷ track
- **PLAY** - starting play
- **STOP** - stopping recording/play
- **PAUSE** - interrupting recording
- **RECORD** - starting recording
- ▶▶ - winding the tape
- ◀◀ - rewinding the tape
- **STANDBY** - selecting standby mode

DBS

- **0-9 digit buttons** - selecting preset stations; entering data when programming timer or clock and when using the direct tuning function
- **PRESET/TRACK** - next ⏶ or previous ⏷ preset station
- **STANDBY** - selecting standby mode

LD

- **0-9 digit buttons** - track selection
- **TRACK** - next ⏶ or previous ⏷ track
- ◀◀ - search down
- ▶▶ - search up
- **PLAY** - starting play
- **STOP** - stopping play
- **PAUSE** - interrupting play
- **STAND BY** - selecting stand by mode

MAINTENANCE

- Do not leave the unit for any length of time in direct sunlight or other places where high temperatures can occur, such as in the vicinity of heating apparatus.
- Do not expose the equipment to humidity or rain.
- A chamois leather slightly moistened with water is sufficient for cleaning the cabinet
- Do not use cleaning agents containing alcohol, spirits, ammonia or abrasives.

(Subject to modification)

ANALOG INPUTS (INPUT SENSITIVITY)

Phono MC: ..... 0.25 mV * (at 100 Ohm)
Phono MM: ..... 2.5 mV * (at 47 kOhm)
Compact Disc: ..... 150 mV * (at 47 kOhm)
Tuner: ..... 150 mV * (at 47 kOhm)
TV/LD: ..... 150 mV * (at 47 kOhm)
Tape: ..... 150 mV * (at 47 kOhm)
DCC: ..... 150 mV * (at 47 kOhm)
VCR/DBS: ..... 150 mV * (at 47 kOhm)
* Sensitivities adjustable 3 dB up/21 dB down in 3dB steps

ANALOG OUTPUTS

Recording
DCC: ..... 150 mV (2.5 kOhm)
VCR: ..... 150 mV (2.5 kOhm)
Tape: ..... 150 mV (2.5 kOhm)
Headphone ..... 6.3 mm Jack, 8-2000 Ohm
..... max. 5.6 Vrms at 2 kOhm Load

DIGITAL INPUTS

Electrical
CD: ..... fully acc. to IEC 958
DCC: ..... fully acc. to IEC 958
Tape: ..... fully acc. to IEC 958
DBS: ..... fully acc. to IEC 958
Processor: ..... fully acc. to IEC 958
Optical
CD: ..... TOS-Link, acc. to IEC 958
DCC: ..... TOS-Link, acc. to IEC 958

DIGITAL OUTPUTS

Electrical
DCC: ..... Balanced, fully acc. to IEC 958
Tape: ..... Balanced, fully acc. to IEC 958
Processor: ..... Balanced, fully acc. to IEC 958
Optical
DCC: ..... TOS-Link, acc. to IEC 958
DSS-Link: ..... 2 x DSS-Link

DISTORTION

Digital inputs: ..... Not measurable
Analog inputs: ..... ⩽ 0.05%

FREQUENCY RESPONSE

Digital inputs: ..... 2 Hz - 20 kHz
Analog inputs
Linear: ..... 20 Hz - 20 kHz
Equalized: ..... 20 Hz - 20 kHz

SIGNAL-TO-NOISE RATIO (IEC weighted)

Digital Inputs ..... Not Measurable
Analog Inputs
Linear inputs: ..... > 80 dBA
Phono MM: ..... > 76 dBA
Phono MC: ..... > 70 dBA

(Subject to modification)

STEREO SEPARATION

Digital: ..... Not Measurable
Analog: ..... > 55 dB (100 Hz - 10 kHz)

CROSSTALK

Digital inputs: ..... Not Measurable
Analog inputs: ..... > 70 dB

PHONO OVERLOAD

Phono MM: ..... > 60 mV
Phono MC: ..... > 6 mV

CONTROLS

Bass (at 80 Hz): ..... +/-5 (+/-6 dB in DSS 930)
Treble (at 10 kHz): ..... +/-5 (+/-6 dB in DSS 930)
Balance control: ..... > 50 dB

SYSTEM CONTROL

..... 2x Cinch, ESI-Bus
..... RC-5 remote control eye

POWER SUPPLY

Mains voltage: ..... according to type plate
Power consumption: ..... 11-17 W
(standby - rated output)
AC outlet: ..... 100 W max. total

CABINET / GENERAL

Weight: ..... 4.3 kg. approx.
Material: ..... aluminium front panel, metal cabinet
Accessories: ..... 1x Remote Control, 3x RC cable
Dimensions (w x h x d): ..... 435 x 106 x 300 mm approx.